

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/002400

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 H04N 5/225**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04N, G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patents and Applications for invention since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

NPS"digital, camera, magnet, coil, actuate, lens, zoom"

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 5978161 A (Norbert Lemke) Nov. 2, 1999 whole paper	1-4 4-57
A	WO 0045209 A1 (Matsushita Electric Co. LTD) Aug. 3, 2000 whole paper	1-57
A	KR 341129 Y1(CHOI, DU-HEE) Jan. 29, 2004 whole paper	1-57

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

29 DECEMBER 2004 (29.12.2004)

Date of mailing of the international search report

**30 DECEMBER 2004 (30.12.2004)**

Name and mailing address of the ISA/KR

Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

JANG, Hyun Geun

Telephone No. 82-42-481-5775



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2004/002400

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5978161 A	02-11-1999	DE 199718189 A1	17-11-1997
WO 0045209 A1	03-08-2000	CN 1294693 T	09-05-2001
KR 341129 Y1	29-01-2004	None	